

Document	Glen Sannox & 802 Monthly Report
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Month/ Year	[November 2021]

Glen Sannox & 802 Monthly Report – [November 2021]

1.0 General

Executive Summary

The current level of production output continues to be insufficient to meet the requirements of either vessel programme. Reconciliation of production losses experienced on Glen Sannox remains limited to an increase in structural workers and an extension to the contracted work scope of the main piping contractor that now sees zone 8 pipe work removed from the yard scope of work. Outfitting worker inefficiencies persist, owing to ongoing and recurring design queries, poor 3D modelling accuracy, late procurement of key equipment, poor work prioritisation [redacted] With eight months to run until Glen Sannox's forecast completion date, the expectation is that unless monthly programme slippage is addressed as a matter of urgency further delays will be unavoidable. The most recent monthly project production feedback issued by FMPG on 17th November 2021, maintains previous reporting ambiguity by omitting reporting against contemporaneous building records. It makes little sense to report the project's overall status as satisfactory month after month if the production variance reported against the baseline reports the opposite. The argument against satisfactory project performance is unavoidably challenged by the announcement of the need to review both the 'Forecast Finish Date' and build programme. At the time of writing (1st December), no clarification on either delay issue had been provided by FMPG.

Project Risk - Glen Sannox

The ongoing approach to risk management issues for both vessels have for the previous eleven months been reported by FMPG as "in need of improvement". It is now reported that an initial part review has been undertaken in October 2021 and that there is a future intention is to perform a full review by the middle of November 2021. Many risks identified in the yard register back in November 2019 remain unaddressed at this relatively late stage in the project, the impact of which is unnecessary delay that could have been mitigated if addressed at an earlier point in the project.

The below table reports risk items identified by FMPG back in September 2019, all of which maintain significant project concerns that require continual attention and reassessment, CMAL comments are in red.

			Risk Description	Controls in Place	Current Impact	Current Likelihood	Current Risk Score	Action Planned	Status as of December 10th	Date Last	Date Last
Sv.	Risk Category	Rick identified by:	-		·	Likelihood			2021	Updated	Reviewed
12		[redacted]	the use of asilock's causes commissioning problems -leakage - and	A review of policick fitted in the engine and DG rooms will be					Not Shared with CMAL Training provided by F®	Oct-19	_
			also through Me maintenance issues. The use of axidods is widespread and the training required to fit may not be sufficient	undertaken and problem aviledta removed and remaining axilooks will be QC checked.				A yard standard to be produced Installation training to be provided.	FMPC quality management program is only mactive to CMAL CCIR comments.		
	Production				50	5	250	2. In salation rearing to be provided 3. OC oversight to be established 4. Problem policies to be serioused	Problem Aelocks are a fill being found as of December 2021.		
								5. ER and DG pipework will be stripped out and re-installed	Piping stripout has never been completed as agreed in either of these		
									spaces		
22			Warkpackaging a rangements are not robust enough to control properly the work sequence and capitating performance	No workpackaging arrangement currently in place				Introduce a process forworkpackaging Improve the organisation to deliver the new process	This faix is still not addressed, the poor design has now progressed to being installed onboard hull 801. The		
									installation of the incorposition direct		
	Project				90	5	250		bilgs suction valves and the poor access to fixel oil isolation valves will not be acceptable to Closs.		
									not be acceptable to const.		
24			Pour sentral of subsantite stors on site tends to out of ensurence	A sub-perdust recover is to be assembled				Agree Toff for a subsordered menager	The appointment of a contrast manager has	Sep-19	-
	Project		working and rework		50	5	250	Advertise and appoint a subcontract Manager	done nothing to minimize the amount of reapplicant owned on either sessel. The impact		
74			Equipment in stores cannot be located in a timely manner to support	no current BOM's or work nachooses in closes. It is in on				Work pickages and SOM are not defined - Technical team to define and	officionthuestoderal each programme. Poor management is still reported by	04th October	Q-6-19
			work packages	aspirational goal				then stones will review and align storage to suit where possible	FMPG in the management of their main store. A recent audit was	0401000000	0.00
	Supply Chain				50	5	250		conducted during week 40, and many key equipment components that were		
									allegedly delivered to the yard are still missing.		
34	Technical		Unable to recruit or retain technical staff in the required numbers, with suitable qualifications and experience	Resource planning and recruitment process is underway	50		250	Increase recruitment activity Investigate mechanism for 3rd party design company support	The conercultuation is that PMPG struggles to retain technically competent personnel once	Oct-19	
95			Unable to recruit or retain Production staff in the required numbers,	Descripts along from revised concerns, boother all, used		-		develop the programme resource domand	recraited. The conventionation is that FMPG struggles to	0449	-
-	Production		with suitable qualifications and experience	plan	50	5		2. produce a vard resource clan showing all projects	retain technically competent personnel once recruited.		
	Production				30	٠	250	develop a resource supply shategy Assumes autocontract labour will be provided at same internal rate Edna supervision may be required.			
37			Late delivery of 801 (802	Risks associated with late delivery are captured elsewhere in the risk recision with planned controls.				Include a time allowance for programme slippage	Program final is now accumdened. Program statement finals further delivery delay to fault 801	Sep-19	_
	Project			in the rok register with plenned controls.	50	5	250		Glen Sunnox. The same problem is expected to become oughtfable in the first pusher of		
46	Technical		Vessel cannot meet contract deadweight	Lightship weight continues to grow	50	5	250	Continue to limit weight growth wherever possible and practical	Discussion still open as of 8th	Oct-19	_
- 95			Failure of equipment during warranty period, Supplier guarantees	warronty controls and spreadsheet is live to allow ongoing	-			Commercial impact has been limited warranty review meeting completed and information shared on all tive	Decementher 2021 Issue not progressed as od 6th	D4th Oslaber	_
	Supply Chain		have expired	review of current position	50	5	250	warranties - where warranty is no longer able to be extended (Watsila) a care and maintonace glan will be out in place.	December 2021.		
10			There is insufficient capacity for pipe manautacture and installation to support the programme	Programme demand from plan based upon installation rates and compariment capacities.				produce pains for subcontract of pipe manaufacture produce plans for permanent and contractor installation labour	This risk has notbeen addressed, usionale or credible planning is not in place. The unfinished piping is on the critical path, and its	Oct-19	
	Production				50	5	250	 Produce specific plan for manufacture and installation of hydraulic pipewset 	late completion in the reason for the delay in		
-			Materials has been stored offsite at Westwov in peor conditions and					relocate all offste materials to a new storage facility	commissioning works. Poor management is still reported by PMPG in	30-Oct	-
_	Supply Chain		organized. The material condition and level of stock is uncertain and may result in material stock write downs.		50	s		undertake a stock take tre tove store location capability	the management of their main store. Arecent audit was conducted during week 41, and		
	Jappy Class					-			many key og alpment components that were allegedly delivered to the yard are still missing.		
17			Dirt and toreign body ingress into piping systems causes commissioning problems. Caused by inadequate protection on pipe	Pipes have been stored externally for some time and open				Plan for chemical flushing of key systems	The risks associated with this issue remain as standfed in October 2019 FMPO has end	Oct-19	04th October
	Production		ends	ort.	50	4	200	Improve pipe storage Improve blanking for open ends	identified in Outster 2019, PMPG has not, implemented the required changes and expectations from contactors.		Gener
				enshot							=
63	Technical		Mochinery and Equipment main tenance access is not possible	Main items have removal/overhaul arrangements produced	50	4	200	plan for a demonstration of engine overhaul produce remaining removal routings	identified in Ottober 2019, FMPG has not	Oc#19	Ost-19
	Tournical				50	,	207		implemented the required changes and expectations from contactors.		
27	Technical		the stability criteria may not be met.	Ongoing development of stability model to analyse margins	50	4	200	Continue to develop stability model, updating to reflect all predicted weight/centre reviews	(th Secensians 2021.	0:4-19	
42			Design does not comply with various aspects MCA or LR rules	Design in accordance with rules. Some are considered 'subjective'. ARRD interpretation is ambiguous				Continue to review and chase outstanding approvels Engage LR and MCA to discuss.	page design has now processed to	Oct-19	
	Technical				50	3	150		being installed enboard half 601. The installation of the inaccessible direct		1 1
									bigs audion valves and the poor access to fuel oil isolation valves will		
18				There are no controls currently for made and stored proces				т. маак от раме сполемну или grouping by system	not be acceptable to class. This risk remains as identified and is still a	Oct-19	\vdash
	Production		The significant number of pipes made but not fitted cannot be found or are obsolete. These is a lack of stock control with pipes located at	A series and series about	25	5	125	Provide better storage toxeton for yares Review pipes duplicate pipes made against latest iso and scrap	This risk remains as identified and is still a problem faced in the construction of both vicesits		
25			various places in the yard Foor change control management leads to changes being	Improved project wide Engineering Change control process:				surplus 1. Modify and implement the revised change control process:		Sep-19	\vdash
	Project		uncontrolled between departments		25	5	125	Audit the process to ensure effectiveness	implemented since week 38, 2021, 25 months offer the identification of the risk.		
43			Survey does not comply with various aspects MCA or LR rules	calling notice and QC team set up to support structural surreys only at this time				 from production viewpoint implement and control the survey and formalise the process accros all production departments by use of "calling 	The quality management process falls in the basic task of spholding yard and industry	Oct-19	
								nation for inspection" process 2. Grow the QC department learn size, with respect to Discipline speciality.	quality requirements. Quality issues are, for the most part, related by CNIAL sile co-ordinators.		
	Quality				25	6	125	commensute with the project size and complexity 3. Techical team implement a lobust internal check® implementation process to ensure Class and Statutny plan appraisal comments are fully			
								process to ensure Class and Statutroy plan appraisal comments are fully implicented in the design and dewnstream document sotio)			
10			Equipment may and worked upon the setting to work and	there is a feeled on overall resistances represent to all				appoint a commissioning manager	Late starting of commissioning		\vdash
"	Commissionin		Equipment may not work during the setting to work and commissioning phase as a result of being little for a significant longth of time	oquipment with the exception of and condensation heating and main engine supplier maintenance	26	4	100	spoord a commissioning manager review maintenance requirements	Late starting of commissioning activities raises the profile of this risk as equipment failure replacements will		
	9				20	•			likely be subjected to long lead times to replace.		
10	Toohnical		PEIDs do not comply with specification or owners comments	Many OORs and Drawing comments still to be resolved	25	4	100	Engage owner to resolve areas of concern		Oct-19	\vdash
54	Commissionin		LNS burkering requires nedifications as the risk assessment has	A HAZOP, HAZIO and bunkering risk assessment	10	3		a further risk assessment prior to actual bunkering of LNG will be	Risk still not addressed as of 8th		\vdash
21	g Technical		not yet been undertaken Overflaul and lifeinfenense. Client concern overlengine room fire	undertakon		-		undertakon	December 2021 Risk still not addressed as of 6th		\vdash
10			dampers access for maintenance, removal l'overhault. Contract milestones not achieved	Risks associated with late delivery of milestones are				Project finance will be provided through the Scottish Government rather	December 2021 Risk still not addressed as of 8th	Sep-19	10-Oct
	Project			captured elsewhere in the risk register with planned controls.				then provious stoge payments. Misstones will be managed agains the revised programme	December 2021		
78	Project		Lack of knowledge of LMS handling causes safety hazards or problems						Risk still not addressed as of 8th December 2021		
											$\overline{}$

Figure 1 Data Source FMPG

Warranty Issues 801 & 802

The Yard has yet to provide information on how this essential post-delivery benefit will be managed, as the current position held of no allowance will have significant implications. Clarification has not been received as of 30th November 2021. The Contract is very clear that there is a 1-year warranty period and that at the end of the day FMPG have to carry the costs of their own workmanship plus the costs of any machinery/equipment failure in the event that manufacturers warranties have lapsed (which they have).

Yard Supervision

The lack of effective onboard supervision of workers regardless of discipline remains a significant issue. Efficiency remains lower than would be typically expected of a shipyard reducted

2.0 Changes to Site Supervision Team

No Changes this period

3.0 Design Changes Approved

(Note of changes; changes to be authorised & recorded in Design Change Register)

4.0 Agreed Changes to Delivery Date

The yard informs that the forecast finish date currently reported as 25th July 2022 for the Glen Sannox is currently under review, the findings are now expected to be released first week of December 2021.

(Note of changes; changes to be authorised & recorded in Contract Variations Register)

5.0 Agreed Changes to Price

(Note of changes; changes to be authorised & recorded in Contract Variation Register)

6.0 Changes Awaiting the Owner's Approval

(Note of changes outstanding for approval by the Owner in excess of Buyer's Representative authority as stated in Consultancy Agreement Cl. 3.4)

7.0 Surveys / Inspections

A total of seven inspection call outs have been made during this reporting period for Glen Sannox. At this point in the project this number should be closer to 200 per month, so less than 5% of what we would normally expect.

Callouts covering hull 802 focus entirely upon structural works.

Vessel	Inspection Call Out Detail	Deck	Week No	Status
801	Welding of Mast to Deck	Deck 8	44	Accepted
801	Steering Gear LO & HYD Test		45	Accepted
801	Fairing Check Frames 47-51	02 & 03	45	Accepted
801	Fairing Check	8	45	WIP
801	Care & Protection Zone 1		46	Comments
801	Pre Insulation Survey	3 P&S	46	Accepted
No Calls for I	rspection Week 47		47	
801	Week 48 will be addressed as part	of December	Report	
802	Stb Bilge Keel	900AB	44	Accepted
802	Unit Butt Welds Blocks 1-2		45	Accepted
802	Care & Protection Zone 1		45	Accepted
802	Unit 80-73 Link Up Survey		46	Accepted
802	Unit 49 Stb (part) Survey		46	Accepted
802	Unit 51 Deck Plate Incerts & MPI		46	Accepted
802	Unit A4/6 P7S Surveyed		46	Accepted
802	Unit Butts Frames 21 - 97	3	47	Accepted
802	Week 48 will be addressed as part	of December	Report	

8.0 Progress Against Programme

Analysis of monthly progress achievement is formulated against the following indicators: manpower resource fluctuations, yard-issued production reporting, identified risks, OOR management, rate of inspection call outs and real-time production monitoring through onboard survey inspection.

Resource Allocation Glen Sannox & Hull 802

The average core yard head count as of week 48 reports the repositions 19 workers from hull 802 to the Glen Sannox. FMPG direct yard worker totals forty-

two for Glen Sannox and seventeen for hull 802 (excluding ancillary workers). Both resource levels maintain parity with planned resources set out in April 2021. It is unclear why FMPG has not reacted to the delays it now reports against pipe installation and outstanding hot works at a much earlier stage of the project as clearly increased resource allocation is seen as the solution to complete outstanding hot works.

The head count of six yard pipe fitters allocated to the completion of the installation works for all spaces outside of zone 2 on Glan Sannox is unworkable given the volume of the work involved to complete the, Forward Machinery (0402); Stabiliser Room Port (0308); Stabiliser Room Starboard (0305); LNG Tank Room (0306); STP Room (0304); Hydraulic Room (0307); Machinery Space Casing (0701 & 0702); Workshop & Store (0103); Steering Gear (0102) and all accommodation spaces above deck 3. It is unclear why a workable recovery strategy was not implemented at a much earlier stage of the project.

Hull 802																		
lull 802 Worker Resources																		
Veek	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
fard Workers																		
Welders	6	4	6	6	- 6	3	0	2	3	2	2	2	2	2	2	5		
laters/Burners	14	14	12	10	10	1	0	1	2	2	2	2	2	2	2	2		
[redacted]					4	3	14	30	30	32	36	38	38	38	38	12		
ingineers							0	0	0	0	0	0	0	0	0	0		
fard Pipe Fitters							0	0	0	0	0	0	0	0	0	0		
ainters	2	2	2		2	2	5	4	4	6	4	4	4	4	4	4		
oiner							0	1	0	0	2	2	2	2	2	0		
Shipwright	3		3	3	3	1	3	3	3	3	3	3	3	3	3	2		
Stagers	2	2	2	2	3	1	2	2	0	4	4	4	4	4	4	4		
Ancils	9	9		8	10	7	9	В	8	4	4	4	5	5	5	0		
Total Per Day	36	31	25	29	38	18	33	51	50	53	57	59	60	60	60	29		
Weekly Hours 5 Day Week	1800	1550	1250	1450	1900	900	1650	2550	2500	2650	2850	2950	3000	3000	3000	1450		
Week	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Contractors																		
[redacted						0	0	0	0	0	0	0	0	0	0	0		
[roddotod =						0	0	0	0	0	0	0	0	0	0	0		
						0	0	0	0	0	0	0	0	0	0	0		
						0	0	D	0	0	0	0	0	0	0	0		
	0	2	2	0	0	0	0	0	0	2	2	2	2	2	0	0		
						0	0	D	0	0	0	0	D	0	0	0		
						0	0	D	0	0	0	0	0	0	0	0		
						0												
_																		
Total Per Day Weekly Hours 5 Day Week		2	2	0	0	0	0	0	0	2	100	2 100	2	2	0	0		Combined To

Yard Production Reporting

Production reporting remains minimal, industry standard reporting detail is only provided against the remaining pipe spool installation and areas of outstanding hot works.

The below table reports FMPG pipe spool production achievement up to the data date of 30th November, prioritised systems needed in the process to perform commissioning activities in support of engine first start are highlighted in orange. Scaling up production of externally fabricated pipe spools is no longer a viable option for the yard to recover production delays. The low rate of reported production completion between September and November has

foundation in late spool procurement, poor 3D model accuracy, the need to ship run missing spools pieces and a lack of TQ prioritisation at design level. The additional time now required to fabricate and install spools compounds current delays and in our opinion is a significant oversight in the current planning philosophy.

System No	No of Spools to fit as of week 49	System	Percen	tage Co	mplete
			Sep-21	Oct-21	Nov-21
309	713	Hydraulic System	0%	14%	21%
414	9	Echo Sounders, Speed log	0%	57%	57%
571	211	Chilled Water	10%	9%	12%
577	232	Heating System	17%	25%	26%
581	928	Technical & Domestic FW	13%	18%	19%
582	372	Sanitary System	27%	34%	35%
666	17	Quick Closing Valves	0%	0%	0%
701	37	Fuel Oil System	42%	84%	93%
704	88	Machinery Save All Drains	7%	44%	31%
705	25	FO Bunkering	85%	86%	93%
708	106	Nitrogen System	40%	41%	43%
709	257	LNG System	9%	9%	17%
711	46	LO Transfer System	63%	78%	82%
712	13	LO Puri System	21%	48%	52%
713	120	LO System	23%	31%	34%
721	5	Sea Water Cooling	89%	92%	96%
722	188	FW LT HT Cooling	67%	77%	81%
725	37	Glycol Heating System	62%	62%	66%
731	215	Compressed Air	52%	57%	59%
743	100	Crank Case Breathers	45%	50%	50%
801	43	Heel & Ballast Water System	43%	79%	81%
802	23	Sludge & Waste Oil System	80%	84%	84%
803.1	127	Clean Bilge System	0%	71%	80%
803.2		Oily Bilge System	47%	77%	82%
804	435	External Scuppers	48%	19%	21%
813	300	Fire & Deck Wash System	8%	23%	28%
815	127	Novec System	9%	22%	25%
816	189	Vehicle Deck Drencher	1%	1%	2%
819		Water Mist	20%	25%	25%
821	254	Air & Sounding	51%	75%	77%
822		Sounding System	22%	64%	64%
	Auxiliary Pipir	ng Systems Needed to Mail	ո & Aux Er	ngines	

Figure 2 Source Date FMPG-Spool No's are based on the deliverable of the main piping contractor

Outstanding Hot Work – Glen Sannox

The below table clearly highlights the extent of the remaining hot works, slow production output rates are flagged in many areas over the period September through November. Completion of hot works is normally given the highest priority in the production and planning process as late completion has a huge impact upon start-up and completion of successor activities such as insulation, pipe installation and coating works.

Zone	Ma	ajor Sea	ts	E	Elect Sea	ats		Lift Eyes		F	ipe Pen	s	=	lec Pens	5	HV	AC Pe	ns	ww/s	stairs/Pla	atfms	Stru	ct/Sketc	hes
	Sept	Oct	Nov	Sept	Oct	Nov	Sept	Oct	Nov	Sept	Oct	Nov	Sept	Oct	Nov	Sept	Oct	Nov	Sept	Oct	Nov	Sept	Oct	Nov
1	95%	97%	97%	0%	0%	100%	0%	0%	100%	28%	28%	35%	20%	70%	100%	45%	91%	100%				75%	88%	100%
2	90%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	92%	100%	100%	100%				40%	47%	57%	71%	71%	100%
3	87%	97%	94%	88%	97%	99%	32%	73%	100%	68%	69%	73%	45%	70%	80%	5%	32%	89%	14%	14%	14%	30%	30%	80%
4	82%	88%	86%	56%	88%	88%	65%	84%	100%	40%	20%	31%	13%	27%	33%	0%	50%	50%	40%	46%	46%	73%	73%	100%
5	0%	0%	100%	0%	0%	37%	0%	0%	49%	0%	0%	25%	0%	0%	0%	0%	0%	50%	21%	21%	21%	0%	0%	0%
6	0%	30%	64%	0%	30%	49%	0%	0%	2%	0%	0%	9%	0%	6%	7%	0%	21%	32%	0%	5%	5%	46%	46%	46%
7	29%	19%	71%	19%	19%	19%	0%	0%	0%	62%	62%	62%	0%	100%	48%	0%	0%	0%		0%	0%	73%	73%	73%
8	0%	0%	25%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	64%	80%	0%	39%	81%				0%	100%	100%
9	0%	45%	0%	0%	45%	45%	0%	100%	100%	0%	0%	0%	0%	41%	92%	0%	74%	80%	0%			0%	0%	0%
10	0%	17%	17%	0%	17%	17%	0%	100%	100%	0%	0%	20%	0%	40%	61%	0%	14%	57%	0%	0%	0%	0%	0%	0%
11	73%	0%	91%	0%	0%	0%					0%	0%		21%	21%		100%	100%				0%	0%	0%

Figure 3 Outstanding Hot Work Percentages by Zone - Source FMPG

Owners Observation Reports

Progress to close out Owner Observation Reports (OOR's) remains slow and is performed largely out of sequence and or not incorporated in each vessel programme. FMPG risk register, line No 24 issued September 2019 identifies the severity of performing out of sequence works which remains a significant issue. As of the 30th of November 2021, 270 OOR's remain open. Many of the OOR's are relating to safety matters and the long-term maintainability of the vessels as built. Addressing these should have been and remains a high priority and consequently a high risk.

Year				2021			
Month	June	July*	Aug	Sep	Oct	Nov	Dec
OOR's Raised	37	25	4	7	0	26	-
OOR's Closed	0	28	33	32	12	28	-

Inspection Call Outs

Rate at which inspection call outs are made is low, see paragraph 7 above.

801 Commissioning

[redacted]

FMPG continues to report the start of commissioning works as 17th December 2021. Maintaining this date has no foundation in terms of logical production achievement as the current days to mechanically complete auxiliary system in support of commissioning start-up will not in our opinion be achievable until week six 2022. At the time of writing, there are two weeks until the scheduled start of commissioning. However, little specific detail is provided in support of planned activities. FMPG has yet to respond to the following inquiries:

According to yard reporting, the electrical shore supply will be completed on December 15, 2021. The electrical shore supply must only be turned on when the 415V Main Switchboard is ready to be powered up. When will the 415V Main Switchboard be powered up from the shore supply? There are numerous unresolved issues regarding access and maintenance in the engine and generator rooms. These issues must be prioritised and resolved in order to deliver a vessel that meets Flag, Class, and building specifications. We've been told that "882 Transformers" and "872 Main and Emergency Switchboards" will be put into service. Which transformers/switchboards will be commissioned, and how extensive will the commissioning be? Is there any information available to support the Motor Control Centres and associated auxiliary system commissioning tests?

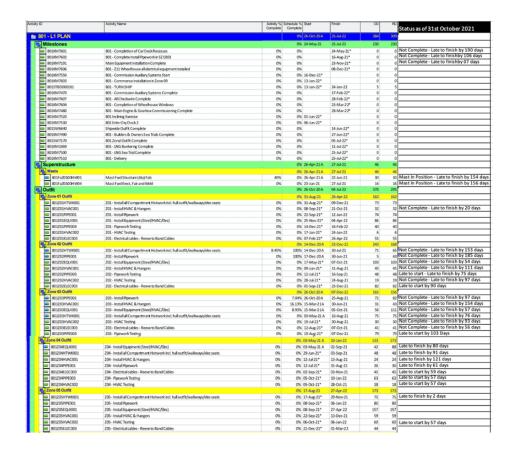
Hull 802

FMPG has advised of significant changes (delay) to the baseline schedule dates issued 28th June 2021 supporting block erection and completion, ref, email dated 28th September 2021, entitled Review of the Block Erecting and Consolidation Programme. Whilst it is acknowledged rescheduling of works within the programme is wholly under the responsibility of the yard and that the yard seeks to maintain overall key dates for Hull Assembly Completion (802KM002) and Superstructure Complete (802KM003), respectively 26th January 2022 and 21st July 2022. Late structure delivery invariably will impact the freedom production workers have to timely commence outfitting work in line with the current schedule, raising the question of the ongoing credibility of the current 802 schedule. The announcement that 19 [redacted]

have been repositioned to the Glen Sannox will challenge FMPG's ability to service the above programme of works.

Glen Sannox FMPG Baseline Planning Detail

Of the sixty scheduled activity with a planned start or finish date at the cut off of 30th November 2021, twenty nine are late to finish and thirty one are reported as late to start, ie FMPG has not upheld a single planned completion date in support of the baseleine programme.



Zone Di	6 Outfit			-0%	25-Aug-21	24-May-22	185	185	
8017	006HTWK001	Z06 - Install all Compartment Hotwork incl. hull outfit/walkways/elec seats	0%		25-Aug-21*	01-Feb-22	108	108	Late to start by 97 days
8012	06PIPE001	206 - Install Roswork	0%		07-Sep-21*	17-Mar-22	131	131	Late to start by 54 days
	006HVAC001	Z06 - Install HVAC & Hansers	0%		08-Sep-21*	11-Jan-22	83	83	
les I out	CONTINUOUS	Advity Name	AdMy %	Schedule %		Frish	00	RD	Late to start by 57 days
		Patrick Indiana	Complete	Complete		1			
9017	COGHVACOUZ	Z06 - HVAC Testing	0%	me	09-Sep-21*	28-Mar-22	136	136	Late to start by 83 days
9017	06EQUI001	206 - Install Equipment (Steel/HVAC/Elec)	0%		02-Nov-21*	27-Apr-22	118	118	Late to start by 29 days
	T06PIPE003	Z06 - Pipework Testing	0%		09-Nov-21*	29-Mar-22	94	94	Late to start by 22 days
9017	00ELEC003	Z06 - Electrical cables - Reeve to Band Cables	0%		23-Nov-21*	24-May-22	121	121	Late to start by 8 days
Zone 0		200 - Electrical caoles - Reene to Barro Caoles	0%		08-Apr-21A	16-Feb-22	205	200	Edit to start by o days
Zone u	IV OUGH	207 - Install all Compartment Hotwork incl. hull out fit/walkway/elecsests			08-Apr-21A	12-Aug-21	40	73	Late to finish by 110 days
8012	DO/HTW/0001	207 - Install all Compartment Hotwork Inc. hull outst/wallways/elec seats 207 - Install Roework	0%			24-Nov-21	147	147	Late to Finish by 7 days
8012	207HTWK001 207PIPE001 207HVAC001	Z07 - Install Pipework Z07 - Install PVAC & Hangers	0%		26-Apr-21A		31	31	Late to Finish by 7 days
8012	007HVAC001				23-Aug-21*	04-0α-21			late to finish by 27 days
8012	E07HVAC002	207 - HVAC Testing	0%		13-Sep-21*	18-Oct-21	26	26	
8012	207HVAC002 207HVAC002 207EQUI001 207FIPE003 207ELEC003	207 - Install Equipment (Steel/HVAC/Elec)	0%		06-Oct-21*	16-Feb-22	89	89	Late to Start by 35 days
8012	007PIPE003	207 - Pipework Testing	0%		02-Dec-21*	13-Dec-21	. 8	8	
8012	E07ELEC003	207 - Electrical cables - Reeve to Band Cables	0%		06-Dec-21*	10-Feb-22	42	42	
Zone 0	8 Outfit				19-Apr-21A	04-3ul-22	300	295	
8012	008HTWK001 008PIPE001	Z08 - Install all Compartment Hotwork Incl. hull outfit/walkways/elecseats	0%		19-Apr-21.A	11-Nov-21	21	138	Late to Finish by 51 Days
8012		Z08 - Install Pipework	0%		26-Oct-21*	20-Jan-22	56	56	Late to start by 67 days
	008HVAC001	208 - Install HVAC & Hangers	0%		09-Nov-21*	22-Nov-21	10	10	Late to Finish by 9 Days
8012	208HVAC003	Z08 - HVAC Testing	0%		09-Nov-21*	29-Nov-21	15	15	Late to Finish by 2 Days
8012	108EQUI001 108PPE003	Z08 - Install Equipment (Steel/HVAC/Elec)	0%	0%	11-Nov-21*	27-Jan-22	49	49	Late to Start by 20 days
W 801Z	C08P4PE003	Z08 - Pipework Testing	0%		01-Dec-21*	15-Mar-22	68	68	
	TOBELECOO3	Z08 - Electrical cables - Reeve to Band cables	0%	0%	07-Dec-21*	24-Jan-22	28	28	
8012	COSPIPE3	208 - Blumarine Fitting Out	0%	0%	28-Feb-22*	04-Jul-22	88	88	
Zone 0	9 Outfit			0%	27-Sep-21	27-Apr-22	144	144	
8012	09HTWK001 09PIPE001	209 - Install all Compartment Hotwork incl. hull out fit/walkways/elec seats	0%	0%	27-Sep-21*	10-Jan-22	69	69	Late to start by 65 days
8012	09PIPE001	Z09 - Instal Roework	0%	0%	05-Oct-21*	17-Feb-22	91	91	Late to start by 55 days
8017	109HVAC001	209 - Install HVAC & Hangers	0%	0%	08-Nov-21*	16-Dec-21	29	29	Late to start by 23 days
	109HVAC002	Z09 - HVAC Testing	0%	0%	17-Nov-21*	22-Dec-21	26	26	Late to start by 14 days
8017	109EQUI001	Z09 - Install Equipment (Steel/HVAC/Elec)	0%	0%	24-Nov-21*	03-Feb-22	45	45	Late to start by 6 days
8017	PO9ELECOO3	Z09 - Electrical cables - Reeve to Band Cables	0%		15-Dec-21*	20-Apr-22	82	82	
8017	09PIPE003	209 - Pipmyork Testing	0%	0%	12-Jan-22*	24-Mar-22	52	52	
8012 8012 8012	TOSPIPE'S	209 - Blumarine Fitting Out	0%		12-Jan-22*	27-Apr-22	74	74	
Zone 10	0 Outfit				11-Aug-21	23-Feb-22	134	134	
		210 - Install all Compartment Hotwork incl. hull outfit/walkways/elec seats	0%		11-Aug-21*	08-Nov-21	64	64	
9017	110HTWK001 110PIPE001	Z10 - Install Roework	0%		19 Aug-21*	23-Dec-21	91	91	Late to Start by 104 days
9017	10HVAC001	Z10-Install HVAC & Hangers	0%		02-Sep-21*	28-Oct-21	41	41	Late to start by 90 days
	210EQUI001	Z10 - Install Equipment (Steel)HVAC/Elec)	0%		02-Sep-21*	07-Dec-21	69	69	Late to start by 90 days
9017	2106000001	Z10-HVAC Testine	0%		16-Sep-21*	08-Nov-21	38	38	Late to start by 76 days
0012	TANKOTO .	Z30 - Riumarine Fitting Out	0%		26-Oct-21*	21-Feb-22	78	78	Late to start by 76 days
00/12	110010E003		0%		29-Nov-21*	21-Feb-22 09-Feb-22	78 46	78 46	Late to start by 2days
8012	210HVAC002 210PIPE3 210PIPE003 210ELEC003	Z10 - Pipework Testing Z10 - Electrical cables - Reeve to Band cables				23-Feb-22	54	54	
Zone 11	I Chaffin	4.00 - EXECUTANCIAGORS - Releve to Barrio Cabres	0%		01-Dec-21* 07-Sep-21	23-Feb-22 05-Acr-22	144	144	
Zone 1	TI SUCTION OF	THE SHARE AND ADDRESS OF THE SHARE AND ADDRESS	-						
8012	211HTWK001 211HWAC001 211PPE001 211EQUI001	Z11- Install all Compartment Hotwork incl. hull out ft/walkways/elec seats	0%		07-Sep-21*	12-Jan-22	85	85	Late to start by 34 days
8012	LIPHVACOUL	Z11-Irstall HVAC & Hangers	0%		28-Oct-21*	08-Dec-21	30	30	
8012	111491001	Z11-Instal Rpework	0%		28-Oct-21*	01-Dec-21	25	25	Late to start by 34 days
8012	11EQUI001	Z11 - Install Equipment (Steel/HVAC/Elec)	0%		28-Oct-21*	08-Dec-21	30	30	Late to start by 33 days
8012	211ELEC003 211HVAC005	Z11 - Electrical cables - Reeve to Band cables	0%		09-Dec-21*	05-Apr-22	77	77	
8012	E11HVAC002	Z11-HVAC Testing	0%		09-Dec-21*	22-Dec-21	10	10	
8012	E11PIPE003	211 - Pipework Testing	0%		14-Dec-21*	23-Dec-21	8		
	E11PIPE3	Z11-BluMarine Fitting Out	0%		12-Jan-22*	05-Apr-22	60	60	
Commis	ssioning			0%	16-Dec-21	23-Jul-22	147	147	
A1110		Commission Audiary Systems	0%	0%	16-Dec-21*	17-Feb-22	39	39	
A1150		Main Engine & Gearbox Commissioning	0%		18-Feb-22	28-Mar-22	27	27	
A1160		STW Propulsion controls/Bow thruster/Indining	0%	0%	21-Mar-22*	02-Jun-22	51	51	
A1120		DryDock 2	0%		03-Jun-22*	17-Jun-22	11	11	
A1130		Trials	0%		18-Jun-22	23-1-4-22	36	36	

802 - FMPG Baseline Planning Detail

Of the twenty planned activity start/finish task dates, eight are late to finish and twelve are reported as late to start. In short no level one activity task group is yet signed off as complete.

Of the twenty scheduled activities with a planned start or finish date at the cut off of 30th November 2021, eight are late to finish and twelve are reported as late to start, ie FMPG has not upheld a single planned completion date in support of the baseline programme.

)	Activity Name	Remaining Duration	-	Finish	Status as of 30th November 20
02 - L1 PLAN		467d	25-Aug-20 A	03-Apr-23	
Milestones		466d	24-May-21	03-Apr-23	
802MILECMAL2102	Commence Zone 2 Pipework Manufacturing	Od	24-May-21*		
802MILECMAL2004	Complete Preparation of Unit 48	Od	, , ,	25-May-21	Late to Finish by 158 Days
802MILECMAL2103	Commence Zonal Hotwork Programme - Zone 2	0d	21-Jun-21*		Cate to Timar by 230 beys
802MILECMAL2104	Commence Zone 2 Pipework Installation	Od	12-Jul-21*		
802MILECMAL2101	Commence Tank Testing	Od	26-Jul-21*		Late to Start by 126 days
802MILECMAL2105	Complete Preparation of the Funnels	0d		16-Sep-21	Late to Start by 70 days
802MILECMAL2109	Complete Pre-Fitting Out (PFO) - Zone 2	Od		30-Sep-21	Late to Finish by 61 days
802MILECMAL2106	Completion of Cryogenic Pipework - Zone 2	Od		28-Oct-21*	Late to Finish by 61 days
802MILECMAL2108	Erect Foc'sle Block (U49/50/51) at Berth	Od	07-Dec-21*		Late to Start by 33 days
802KM002	802 Hull Assembly Complete	0d		26-Jan-22*	cate to start by 35 days
802MILECMAL2107	Shaftline - Final Line of SightAchieved	Od		21-Feb-22*	
802KM003	802 Superstructure Complete	Od		21-Jul-22*	
802KM004	802 Launch	Od		15-Aug-22*	
802KM005	802 CommissionAuxiliary Systems Complete	Od		11-Oct-22*	
802KM006	802 Main Engine and Gearbox Commissioning Complete	Od		21-Nov-22	
802KM007	802 Zonal Cufft Complete	Od		30-Nov-22	
802KM008	802 Enter Dry-Dock		26-Jan-23*	00110122	
802KM009	802 Indiring Exercise		09-Feb-23*		
802KM010	802 Builders and Owners Sea Trials Complete	Od		20-Feb-23*	
802KM011	802 LNG Bunkering Complete	Od		20-Mar-23	
802KM012	802 LNG Sea Trial Complete	Od		28-Mar-23	
802KM013	802 Delivery	Od		03-Apr-23*	
			25-Aug-20A	05-Jul-22	
Structure					
Unit Assembly	Disability 5		25-Aug-20 A	08-Jun-22	
A1170	Block 1		25-Aug-20A	27-May-21	Late to Finish by 186 days
A1190	Block 3		24-May-21*	21-Sep-21	Late to Finish by 70 days
A1210	Block 5		07-Jun-21*	21-Oct-21	Late to Finish by 40 days
A1280 A1200	Block 12		08-Jun-21*	07-Oct-21	Late to Finish by 54 days
Block Assembly	Block 4		14-Jun-21* 13-Aug-21	20-Jan-22 21-Apr-22	
A1290	Block 11 Upper		13-Aug-21*	16-Sep-21	Later to the later to the
A1300	Block 12 Foc'sle		04-Oct-21*	06-Dec-21	Late to Finish by 75 days
A1310	Block 10/11 Wheelhouse		13-Dec-21*	21-Apr-22	
Launch			06-Dec-21	05-Jul-22	
802A7020	LaunchArrangement		06-Dec-21*	14-Jun-22	
802A7030	LaunchPreparation	124	15-Jun-22"	05-Jul-22	
Outfit		366d	21-Jun-21	30-Nov-22	
Zone 01 Outfit		142d	12-Jan-22	03-Aug-22	
802Z01HTWK001	Z01 - Install all Compartment Hotwork incl. hull outfit/walkways/elec seats	46d	12-Jan-22*	16-Mar-22	
802Z01HVAC001	Z01 - Install HVAC & Hangers		26-Jan-22*	02-Mar-22	
802Z01PIPE001	201 - Install Pipework		26-Jan-22*	11-May-22	
802Z01PIPE003	Z01 - Pipework Testing		23-Feb-22*	08-Jun-22	
802Z01HVAC002 802Z01EQUI001	Z01 - HVAC Testing Z01 - Install Equipment (Steel HVAC/Elec)		02-Mar-22* 16-Mar-22*	12-May-22 29-Jun-22	
802Z01ELEC003	Z01 - Electrical cables - Reeve to Band Cables		11-Apr-22*	03-Aug-22	
Zone 02 Outfit			21-Jun21	19-Apr-22	1
802Z02HTWK001	Z02 - Install all Compartment Hotwork incl. hull outfit/walkways/elec seats		21-Jun-21*	23-Sep-21	Late to Finish by 68 days
802Z02PIPE001	Z02 - Install Pipework		12-Jul-21*	07-Od-21	Late to Finish by 58 days
802Z02PPE003	202 - Pipework Testing		29-Sep-21*	24-Jan-22	,
802Z02EQUI001	Z02 - Install Equipment (Steel HVAC/Elec)		04-Oct-21*	08-Feb-22	
802Z02ELEC003 802Z02HVAC001	Z02 - Electrical cables - Reeve to Band Cables		06-Oct-21*	19-Apr-22 25-Jan-22	
802Z02HVAC001 802Z02HVAC002	Z02 - Install HVAC & Hangers Z02 - HVAC Testing		28-Oct-21* 13-Dec-21*	25-Jan-22 08-Feb-22	
Zone 03 Outfit	are time long		19-Jul-21	22-Mar-22	
802203HTVVK001	203 - Install all Compartment Hotwork incl. hull outlit/walkways/elec seats		19-Jui-21*	16-Dec-21	
802Z03HVAC001	Z03 - Install HVAC & Hangers		03-Aug-21*	25-Nov-21	Late to Start by 101 days
802Z03PIPE001	Z03 - Install Pipework	98d	03-Aug-21*	16-Dec-21	Late to Start by 101 days
802Z03PIPE003	Z03 - Pipework Testing		30-Aug-21*	11-Jan-22	Late to Start by 92 days
802Z03EQUI001	203 - Install Equipment (Steel/HVAC/Elec)		06-Sep-21*	15-Feb-22	
802Z03ELEC003 802Z03HVAC002	Z03 - Electrical cables - Reeve to Band Cables		07-Sep-21* 16-Dec-21*	22-Mar-22 01-Feb-22	Late to Start by 84 days
Zone 04 Outfit	203 - HVAC Testing		16-Dec-21* 20-Sep-21	01-Feb-22 23-km-22	
	Z04 - Install Pipework	1000	co oob m.	25-Jan-22 25-Jan-22	Late to Start by 81 days
802Z04EQUI001	Z04 - Install Equipment (Steel/HVAC/Elec)			26-Apr-22	care to start by 81 days
802Z04HTWK001		60d	01-Nov-21*	01-Feb-22	
802Z04ELEC003	Z04 - Electrical cables - Reeve to Band Cables	152d	10-Nov-21*	23-Jun-22	
802Z04PIPE003	Z04 - Pipework Testing	85d	15-Nov-21*	22-Mar-22	
802Z04HVAC001	Z04 - Install HVAC & Hangers			16-Dec-21	
802Z04HVAC002	Z04 - HVAC Testing			19-Apr-22	
Zone 05 Outfit 802205HTWK001	205 - Install all Compartment Hotwork incl. hull outfit/walkways/elec seats	122d	29-Nov-21 29-Nov-21*	31-May-22 11-Jan-22	<u> </u>
802205HTWK001 802205HVAC001	205 - Install all Compartment Hotwork incl. hull outlitivalitiwa ysretec seats 205 - Install HVAC & Hangers		13-Dec-21"	11-Jan-22 15-Feb-22	
802Z05HVAC001	Z05 - HVAC Testing		05-Jan-22*	21-Feb-22	
			19-Jan-22"	03-May-22	
	205 - Fistall Pipework				
802Z05PIPE001 802Z05EQUI001	Z05 - Install Pipework Z05 - Install Equipment (SteeliHVAC/Elec)		09-Feb-22*	26-Apr-22	
802Z05PIPE001		53d	09-Feb-22* 09-Feb-22*	26-Apr-22 17-May-22	

Block Erection Status - 802

After 03dk, Units 81 erection joints were surveyed in week 46, and Unit 80 is expected to be surveyed in week 48.

FMPG has, for the time being, abandoned any work on deck 5, further delaying the revised consolidation erection program.

Hull 801

Wheelhouse Navigation

Communications and Safety Console Installation

Work has not started on the agreed [redacted] upgrade, the ongoing works to outfit the bridge area should in no way be considered as being performed in a controlled environment, aluminium grinding particulate covers most surfaces and will contaminate the safety critical equipment and cabinets. Correspondence has been entered into with FMPG the outcome of which is still awaited.

While window installation continues, access to install an underslung scaffold to facilitate the installation of the outermost port and starboard bridge wing windows has been restricted due to inclement weather. Our onboard patrolling inspections have identified a significant number of localised points of burn damage to the installed glazing units as a result of insufficient protection, which is disappointing given that CMAL raised the possibility of damage to installed windows several months ago but went unheeded. Following cleaning, the yard will conduct a detailed survey and report their findings.

Additionally, we notice that the window washing unit has been installed in the void beneath the bridge. The position chosen gives insufficient access for maintenance.

Weather Conditions Recorded for Port Glasgow for November 2021

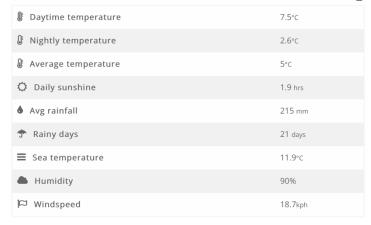


Figure 4 November 2021 Weather Stats

The high instance of wet weather has stopped all external deck works.

It is regrettable that many of the external works that are inevitable exposed to weather are being carried out in the Autumn and Winter period – this is totally predictable in the "West of Scotland and is a further example of poor planning and understanding of the job prioritisation.

Ongoing External Structural Works

Panama Eyes

On-going work stalled because of poor weather. Work started on removal back in week 33, work remains to be completed as of week 43. Scheduled completion of this work (801Z05HTWK001) was planned as 29th November 2021. Bad weather has delayed their subsequent installation onboard.

Modified Mooring Rope Bits

Modification works to increase the height dimension is now complete, all units have now been installed on the forecastle.

Hull Belting

On-going work stalled because of poor weather - Planned completion of hot works in zones 1,2 & 3 is respectively 9 December 2021, 30 July 2021 and 16 August 2021. Arguably this work should have been a component deliverable of the 7th of May 2020 milestone claim for structural completion. Work is currently abandoned because of bad weather.

External Deck Coating Works

On-going work stalled because of poor weather - Uncoated structural components remain open to the elements for the second winter season, please [redacted] to gain a full understanding.

Forward And Aft Masts

Remaining structural and outfitting works are on hold because on continued poor weather conditions.

Clam Shell Door Installation

Work has progressed well this period, the first trial opening of the doors has now been attempted, a few issues remain to be resolved prior to the arrival of the TTS OEM on the 6th of December. It should be noted that the door movement was achieved by using external jacks, not the dedicated vessel hydraulic system.

Main and Auxiliary Engine Exhaust Resilient Supports

Works are ongoing, OOR's have been raised against several significant defects that must be progressed in line with the building programme to ensure the installation is fit for purpose, the yard is expected to prioritise this work in support of first start of main and auxiliary engines.

Structural Compensation of Pipe Transits

Work is ongoing to fit compensation pieces in all affected areas. This work's out of sequence impact is hugely damaging to the progress of works set out in the master schedule. The delay impact will significantly impact the earliest date at which testing, and commissioning works can start. This hold point is not factored into the current planning philosophy.

Structural Plenums

Work continues in the fabrication of structural plenums. No reference is made within the level 1 baseline program as to when this work is scheduled to be completed.

Deadweight Issue

Update expected week 50 during FMPG project update meeting.

Glen Sannox Piping

LNG

Sound progress has been achieved in the installation of the main bunker double walled vacuum insulated aft bunker pipe headers, pipe runs now extend from the auxiliary machinery space through the main engine room and on to the cryogenic storage tank space.

Zone 2 Machinery Space Isometric Pipe Installation

At the time of writing 6,000 pipe spools still need to be fitted to complete the installation on Glen Sannox. Work continues at a slow pace, [redacted]

Onboard observation flags the complexity of the remaining works will warrant significantly longer installation times per spool. A normal installation would typically factor between 5 and 10 hours per spool, we now typically see this as closer to 20 hours per spool. [redacted]

The ongoing baseline program completion date overrun is currently reported as 140 calendar days in delay. Unless the Yard takes immediate action to recover this delay through acceleration measures there is little likelihood that commissioning will start in line with the master schedule on the 16th of December 2021.

Pipe System Prioritisation - Commissioning - 801

In their September 2021 project report, the yard identifies the "volume of change from zone 2 modifications sheet now understood and materials are available, level of change has impacted major systems for the start of commissioning" Ongoing survey of the systems in question does not indicate measurable prioritisation of the works needed to complete essential systems. Late in the day, the yard's procurement of system valves and various pumps remains a significant issue.

Piping, Cable & Transformer Space - 0303

Minimal production progress is again reported over this reporting period. The overall level of piping completion this period; penetrations through to the P&S stabiliser spaces are now complete allowing final spool pieces to be installed for some transiting systems. Progress is assessed to remain at 75% for mechanical installation. The late procurement of glycol system valves and pipe spools, the late installation of the LNG bunkering pipe transits, and a lack of available resources to complete remain the principal issue faced by the yard. Scheduled completion of this area was planned as 16th August 2021.

Forward Machinery Space (0402) – 801

Work has mainly stopped in this area, assess is hampered because of installed scaffolding. Furthermore, we assume that this is driven by late procurement of key components, pipe installation was scheduled to be completed 31st August 2021, hot work was scheduled to be completed 03rd September 2021, HVAC testing is also scheduled to be completed as well of 13th August 2021.

Central Hydraulic System Installation - 801

Work has started on the pipe installation, the main header is now run from the sewage treatments space (0304), through the pipe, cable and transformer space (0303), initial feedback is the installation standard is high, progress is slow as the contractor is unavoidably forced to await the shipyard driven hot works (bulkhead penetrations, support attachments to tank tops etc.) be completed. Many co-ordination issues have prevented pipe runs in the

machinery spaces from following the 3D model coordination routing. Site run pipes have now been installed that will likely impact the access to the main engine cylinder heads during routine maintenance procedures, the issue is under discussion with the yard.

Zone 2 Walkways - 801

At the time of writing the yard has appointed an external contractor to review what improvements can be made to the onboard installation, their findings are awaited.

Electrical - 801

The electrical contractor has continued to run low-voltage cable in the workshop and forward auxiliary facilities.

As of week 48, the advice given at the Week 42 FMPG Project Meeting that mainline cable pulling will commence in week 43 (rather than the initially scheduled week 36) had not materialised. However, it should be noted that [reduced] has directed the vessel to be inspected by an advanced survey team prior to beginning this task.

Cable trays and ladder racks continue to be installed on decks 5/6/7. It should be noted that the cable tray utilised is extremely thin gauge, and additional support will be required to quarantee the proper installation standard is met.

reducted structural workers are completing the missing links in the emergency generator room cable routing by installing cable transit spigots rather than reducted glands.

personnel continue to work on the reducted modification of the engine control room's main switch boards.

FMPG has awarded [redacted] the contract for switchboard cleaning. The initial cleanup occurred during week 46.

HVAC Installation - 801

Previously reported progress has had to be revised as already installed ducting in many areas has had to be taken down because of poor production coordination issues, auxiliary machinery space: forward machinery space: workshop area.

Cardinal Date Status

Milestone' Completion of Car Deck Recesses' originally due 9 April 2021 and is now claimed as complete 7 May 2021, is now scheduled to be complete 24 May 2022 under the guidance set out in the re-baselined programme. The balance of work needed to complete the remaining 17 structural recesses remains to be started. The programme slippage currently stands at 128 calendar days. Clearly the baseline expectations underpinning the RBP is unrealistic.

Commissioning		154d	22-Aug-22	03-Apr-23	
A1110	CommissionAuxiliary Systems	37d	22-Aug-22*	11-Oct-22	
A1150	Main Engine & Gearbox Commissioning	15d	31-Oct-22*	18-Nov-22	
A1160	STW Propulsion controls/Bow thruster/Inclining	58d	21-Nov-22*	17-Feb-23	
A1120	Dry Dock	11d	25-Jan-23*	08-Feb-23	
A1130	Trials	32d	13-Feb-23*	28-Mar-23	
A1140	802-Delivery	0d		03-Apr-23	

Work to complete the claimed milestone of structural completion claimed 7 May 2021 remains ongoing. Many other areas need to be worked and completed to achieve 'full' Steel/Aluminium Structural Completeness. Examples are, installation of all remaining internal bulkheads,

aluminium bulkheads within the accommodation areas, installation of all stairwells, completion of welding of all Panama fairleads, completion of lift shafts, installation of all windows, installation of Forward Mast and the cutting / opening of bow doors and associated major structural works.

Aft Mast: As of week 21, 2021, milestone completion claimed 7 May 2021. However, final acceptance by CMAL inspection was not possible as the build quality of vent pipe supports, and poor standard of internal structure coating was insufficient to satisfy normal industry build standards or the requirements set out in the contractual specification.

Belting: Milestone completion claimed 7 May 2021; As of week 30, 2021, work remains incomplete on the starboard side of the vessel, work has been progressed this period to complete the port aft belting. Programme slippage currently stands at 115 calendar days.

9.0 Next Stage Payment Due

n/a

10.0 Forthcoming Period Events

(Note of events, visits, holidays or other yard commitments)

11.0 Tests & Trials Due

Updated statistics not provided by FMPG for this reporting period.

12.0 Risk Register Update

Updated statistics not provided by FMPG for this reporting period.

13.0 Safety & Environmental

Title	This Month	Cumulative
RIDDORS	0	0
Fatality	0	0
Lost Working day Case	0	5
Medical Treatment Case	2	22
First Aid Case	10	76
Property Damage	0	0
High Potential Near Miss	2	3
Near Miss	0	0
Fire Incident	0	0
Environmental Incident	0	0
Total Number of Recordable Injuries	0	1
Total Number of Days Lost	1	48

Figure 5 Data From FMPG

Print Name: [Jim Anderson]

Signature:

Date: 16 December 2021

[redacted]